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TARDEC Industrial Base Overview

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To inform the conference attendees about TARDEC's Industrial Base Mission and Capabilities



AGENDA



- TARDEC Industrial Base Support
- Industrial Base Background
- Industrial Base Issue Resolution
- Industrial Base Integration Team (IBIT) Partnership
- IBIT Policy Benefits
- IBIT Mission
- Industrial Base Engineering Support
- Sustainment Engineering Obsolescence
- Industrial Base Engineering Team (IBET) Automation Alley Contract



TARDEC Industrial Base Support











Vehicle
Development
& Integration

Industrial
Base
Engineering
Support

Materials
Environmental
& Corrosion

TARDEC Industrial Base Support

Sustainment Engineering

Depot/Arsenal Support

Manufacturing Technology











TARDEC Industrial Base Support



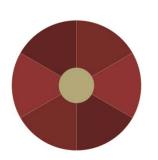
What is TARDEC's Industrial Base Mission?

Industrial Base Support:

- LCMC Industrial Base Integration Team (IBIT) Participation
- TARDEC Industrial Base Engineering Team (IBET)
- Advanced Manufacturing Technology (AMT)
- Diminishing Manufacturing Sources and Material Shortages (DMSMS)
- Depot Liaison Rotation Program
- Prototype Integration Facilities (PIF)

Sustainment Engineering Support:

- Value Engineering (VE)
- Operating & Support Cost Reduction (OSCR)
- Quality Deficiency Report (QDR)
- Integrated Collaboration & Analysis Process (ICAP)
- Industrial Base Engineering Team (IBET) (For sustainment issues)
- DLA Engineering Support (DLA 339)
- Depot Liaison Rotation Program (For platform issues)
- Diminishing Manufacturing Sources and Material Shortages (DMSMS) (For platform issues)
- Equipment/User Feedback (OSMIS, SDC, AMSAA, C-REPS, QDRs)
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Industrial Base Background



Escalating Industrial Base Challenges (Production & Sustainment)

- Condition of Army equipment degradation due to OPTEMPO
- Obsolescence of Army systems due to age
- Loss of manufacturing sector in U.S.
- Negative economic trends impacting commercial industrial base
- Environmental and safety impacts
- Inconsistent life cycle sustainment planning
- Stove-piped industrial base issue investigation & resolution



Industrial Base Issue Resolution



Past Support = Component or platform focus

- Lack of standardized LCMC strategies
- Separate platform support
- Focus on select STS & OEM supported platforms
- Individual "isolated" platform solutions
- LCMC and experience was not leveraged or shared
- No pro-active Industrial Base or DMSMS management

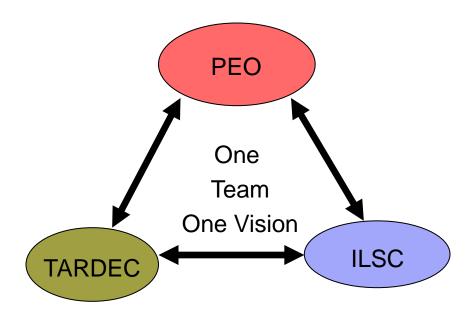
<u>Current/Future Support</u> = LCMC consideration & application

- Industrial Base Integration Team (IBIT) Process (2007) = LCMC focus
- Leverages & shares common/existing LCMC solutions & capability
- Interfaces with broad commercial industrial base (DMSMS contract)
- Pro-active LCMC Industrial Base monitoring (capability & risk)
- Leverages & cultivates non-traditional sources of capability
- Documents IBIT issues and provides user access (IBIT Console)



RDECOM Industrial Base Integration Team (IBIT) **Partnership**







IBIT Policy Benefits



- Provides LCMC wide visibility of industrial base issues
- Provides shared experience, knowledge and capability
- Links issues with appropriate stakeholder organizations
- Maintains historical industrial base/support data
- Supports industrial base management policy, AR700-90
- Supports Material Enterprise Life Cycle Management initiatives
- Links platform information with supporting databases
- Supports transition from component and platform focus to LCMC concept



IBIT Mission



- Supports Industrial Base requirements from LCMC perspective
- Supports all issues associated with lack of sources required for production and/or sustainment
- Identifies and monitors commercial industrial base (capability & health)
- Monitors & identifies industrial manufacturing risk or non-support conditions.
- Monitors & identifies OSHA, EPA & SAE Issues or initiatives
- Provides support options, tools & solutions to managers
- Provides collaboration, coordination and investigation support
- Leverages LCMC experience, capability & expertise
- Applies disciplined processes ICAP
- Supports implementation of LCMC solutions (standardization)
- Captures & documents industrial base issues in IBIT Console/Database



Industrial Base Engineering Support



Industrial Base Engineering Team (IBET)



TARDEC Engineers:

- Support LCMC Industrial Base requirements
- Provide investigation of issues
- Leverage experience, capability & expertise
- Provide quick response to problems
- DLA 339 Request for Engineering Support resolution
- Support proactive management
- Improve LCMC communication
- Apply disciplined processes
- Implement LCMC wide solutions (standardization)



Sustainment Engineering Obsolescence



Diminishing Manufacturing Sources & Material Shortages (DMSMS)

TARDEC Engineers:

- Monitor, identify, and resolve industrial manufacturing risk or nonsupport conditions
- Address Occupational Safety Health Administration (OSHA), Environmental Protection Agency (EPA), Society Of Engineers (SAE) initiatives
- Eliminate or minimize impact and / or reduce operating and support costs for equipment supported by the TACOM LCMC
- Provide TACOM LCMC Managers maximum visibility of support options
- Identify current suppliers as well as those who have not historically conducted business with the government
- Manage the DMSMS Contract to access commercial industry



Industrial Base Engineering Team Automation Alley Contract



Diminishing Manufacturing Sources and Material Shortages



- Automation Alley, Michigan's largest technology business association, is currently on contract with TARDEC to provide industrial base support for the TACOM LCMC Diminishing Manufacturing Sources and Material Shortages (DMSMS) program
- The contract with Automation Alley has created a capability to establish commercial industrial base visibility and communicate TACOM LCMC requirements with companies across the United States
- Current Efforts:
 - Common Automotive/TACOM LCMC Industrial Base Sector Study
 - Industrial Base Data & Communication Tool
 - Cadmium/Hex Chrome Replacement (High Purity Aluminum) Capability
 - Advanced Aviation Forward Area Refueling System (AAFARS)Tech Data Development
 - Sustainment Engineering Risk Assessments of TACOM Equipment
 - TACOM LCMC Industrial Base Health/Risk Assessments